ACRYLAC®

User Guide

Safety First

huber group

Glossy	ACRYLAC Gloss 57G1000	ACRYLAC Highgloss 57G1100	ACRYLAC Highgloss Extra 57G1200	ACRYLAC Gloss S 57G1300	ACRYLAC Highgloss S 57G1400	ACRYLAC Highgloss Extra S 57G1500	Comments + Suitable +/- Test recommended - Not suitable
Coating							
Single-sided	+	+	+	+	+	+	
Double-sided	+	+	+	-	-	-	
Press equipment							
Coating unit with screen roller and chambered doctor blade	+	+	+	+	+	+	
Coating unit with 2-roller system	+	+	+	+	+	+	
No coating unit installed; coating to be applied using the printing unit	-	-	-	-	-	-	Recommendation: ACRYLAC Specific Print Gloss 57S8000 (for single-sided printing only!)
Drying equipment							
Short delivery, hot-air blower with extraction unit and IR lamps	+	+	+	+/-	+	+/-	
Long delivery, hot-air blower with extraction unit and IR lamps	+	+	+	+	+	+	
Short delivery, no hot-air blower, no air knife, only IR lamps	-	-	-	-	-	-	See ACRYLAC Specialities
Short delivery, no hot-air blower, no cold-air/ ambient-air blower + extraction unit and IR lamps	-	-	-	-	-	-	See ACRYLAC Specialities
Substrate							
Paper	+	+	+	+	+	+	Light-weight paper grades can result in curling. See ACRYLAC Specialities
Paper with plastic-coated reverse side	+	+	+	-	+/-	-	
Board	+	+	+	+	+	+	
Board with plastic-coated reverse side	+	+	+	-	+/-	-	
Uncoated papers and card stocks	+/-	+/-	+/-	+/-	+/-	+/-	Due to their high absorbency, uncoated stocks can result in reduced rub resistance; light-weight papers have a tendency to curl. See ACRYLAC Specialities
Foil, aluminium-vaporised paper, other non-absorbent substrates	-	-	-	-	-	-	See ACRYLAC Specialities
Finishing							
Hot foil stamping	+	+	+	+	+	+	The foil and stamping conditions must be suitable for water-based coatings – test recommended
Film laminating	+/-	+/-	+/-	+/-	+/-	+/-	ACRYLAC Special Primer offers greater security – test recommended
Subsequent UV lacquering offline (for UV inline => specialist department)	-	-	-	-	-	-	See ACRYLAC Specialities
Converting							
Sealing with sealing film	+/-	+/-	+/-	+/-	+/-	+/-	Unfavourable film materials and sealing conditions can lead to sticking (acrylate-coated films cause blocking!) – test recommended
Laminating on board or corrugated	+/-	+/-	+/-	-	+/-	-	The laminating conditions have a great influence – test recommended
Bonding/adhesion (folding-carton production, etc.)	+/-	+/-	+/-	+/-	+/-	+/-	The bonding conditions have a great influence – test recommended NOTE: coating seals the surface of the paper/board and its absorbency is greatly reduced. Water-based adhesives then have a longer setting time than on the blank substrate. Glue flaps should be left blank
Sterilising	+/-	+/-	+/-	+/-	+/-	+/-	Not suitable for sterilisation with superheated steam or with heat + increased humidity
Strong influence of heat, e.g. through hot tools, subsequent heating of the print or the like	-	-	-	-	-	-	See ACRYLAC Specialities
Applying stamps, printing with ink jet printer, writing on	+/-	+/-	+/-	+/-	+/-	+/-	The absorbency of the coated surface is very low; only markers for non-absorbent substrates are suitable
Laser printing	-	-	-	-	-	-	See ACRYLAC Specialities
Peculiarities							
Use on primary food packaging	-	-	-	-	-	-	We recommend you use our MGA product range. For more information, visit www.hubergroup.com
Use on cigarette packaging							Many cigarette manufacturers demand the use of certified products. Please contact your **huber**group contact.

Matt	ACRYLAC Silk Matt 57M2000	ACRYLAC Semimatt 57M2100	ACRYLAC Matt 57M2200	ACRYLAC Matt Extra 57M2300	Comments + Suitable +/- Test recommended - Not suitable
Coating					
Single-sided	+	+	+	+	
Double-sided	+	+	+	+	
Press equipment					
Coating unit with screen roller and chambered doctor blade	+	+	+	+	
Coating unit with 2-roller system	+	+	+	+	
No coating unit installed; coating to be applied using the printing unit	-	-	-	-	Recommendation: ACRYLAC Specific Print Gloss 57S8000 (for single-sided printing only!)
Drying equipment					
Short delivery, hot-air blower with extraction unit and IR lamps	+	+	+	+	
Long delivery, hot-air blower with extraction unit and IR lamps	+	+	+	+	
Short delivery, no hot-air blower, no air knife, only IR lamps	-	-	-	-	See ACRYLAC Specialities
Short delivery, no hot-air blower, no cold-air/ambient-air blower + extraction unit and IR lamps	-	-	-	-	See ACRYLAC Specialities
Substrate					
Paper	+	+	+	+	Light-weight paper grades can result in curling. See ACRYLAC Specialities
Paper with plastic-coated reverse side	+	+	+	+	
Board	+	+	+	+	
Board with plastic-coated reverse side	+	+	+	+	
Uncoated papers and card stocks	+/-	+/-	+/-	+/-	Due to their high absorbency, uncoated stocks can result in reduced rub resistance; light-weight papers have a tendency to curl. See ACRYLAC Specialities
Foil, aluminium-vaporised paper, other non-absorbent substrates	-	-	-	-	See ACRYLAC Specialities
Finishing					
Hot foil stamping	+	+	+	+	The foil and stamping conditions must be suitable for water-based coatings – test recommended
Film laminating	+/-	+/-	+/-	+/-	ACRYLAC Special Primer offers greater security – test recommended
Subsequent UV lacquering offline (for UV inline => specialist department)	-	-	-	-	See ACRYLAC Specialities
Converting					
Sealing with sealing film	+/-	+/-	+/-	+/-	Unfavourable film materials and sealing conditions can lead to sticking (acrylate-coated films cause blocking!) – test recommended
Laminating on board or corrugated	+/-	+/-	+/-	+/-	The laminating conditions have a great influence – test recommended
Bonding/Adhesion (folding-carton production, etc.)	+/-	+/-	+/-	+/-	The bonding conditions have a great influence – test recommended NOTE: coating seals the surface of the paper/board and its absorbency is greatly reduced. Water-based adhesives then have a longer setting time than on the blank substrate. Glue flaps should be left blank
Sterilising	+/-	+/-	+/-	+/-	Not suitable for sterilisation with superheated steam or with heat + increased humidity
Applying stamps, printing with ink jet printer, writing on	+/-	+/-	+/-	+/-	The absorbency of the coated surface is very low; only markers for non-absorbent substrates are suitable
Strong influence of heat, e.g. through hot tools, subsequent heating of the print or the like	-	-	-	-	See ACRYLAC Specialities
Laser printing	-	-	-	-	See ACRYLAC Specialities
Peculiarities					
Use on primary food packaging	-	-	-	-	We recommend you use our MGA product range. For more information, visit www.hubergroup.com
Use on cigarette packaging					Many cigarette manufacturers demand the use of certified products. Please contact your **huber**group contact.

This Technical Information sheet reflects the current state of our knowledge. It is designed to inform and advise. We assume no liability for correctness. Modifications may be made in the interest of technical improvement. Contact addresses for advice and further information can be found under www.hubergroup.com.

Products with enhanced property set for special applications

* S=single sided/D=double sided

Problem	Recommendation	*	Comments
Printing process			
Printing paper and board: blocking and setoff in the stack due to very high ink coverage, high press speeds or rapid turning	ACRYLAC SPECIAL Antiblock 57S1101	D	Whenever blocking and setoff occur, all aspects of the printing process must be analysed – such as the drier unit, anti-setoff powder unit, fount solution delivery, ink type and substrate – because even coatings that are highly resistant to blocking, such as 57S1101, are not able to compensate all deficiencies in the printing process.
Printing paper and board: crazing due to very high ink coverage	ACRYLAC SPECIAL Anticrazing 57S1404	S	If crazing occurs on paper or board, ink delivery and fount solution delivery should also be checked. As a general rule: the less used the better. In particularly critical cases, use ACRYLAC Special Foil.
Press equipment			
Modular coating system (with dryer unit) upstream of perfecting device	ACRYLAC SPECIAL PCS Gloss 57S1110 ACRYLAC SPECIAL PCS Semimatt 57S2110 ACRYLAC SPECIAL PCS Matt 57S2310	D D D	
Drying equipment			
Short delivery, no hot-air blower, no air knife, only IR lamps	ACRYLAC SPECIAL Foil Gloss 57S1105 ACRYLAC SPECIAL Foil Matt 57S2305	D D	Test recommended; printing water-based coatings without ventilation is very critical.
Short delivery, no hot-air blower, no cold-air/ambient-air blower + extraction unit and IR lamps	ACRYLAC SPECIAL Foil Gloss 57S1105 ACRYLAC SPECIAL Foil Matt 57S2305	D D	
Substrate			
Foil, aluminium-vaporised paper, other non-absorbent substrates	ACRYLAC SPECIAL Foil Gloss 57S1105 ACRYLAC SPECIAL Foil Matt 57S2305	D D	
Light-weight paper grades with a tendency to curl during coating	ACRYLAC SPECIAL Anticurl Gloss 57S1102 ACRYLAC SPECIAL Anticurl Gloss S 57S1402 ACRYLAC SPECIAL Anticurl Matt 57M2302	D D D	
Uncoated papers	ACRYLAC Specific Anticurl 57S9020 ACRYLAC Specific Anticurl Matt 57S9021	D D	Test recommended; some papers absorb the coating so readily that an adequate degree of protection is not achieved or they warp so badly that problems still arise despite the anticurl formulation of the coating.
Finishing			
Subsequent UV lacquering, film lamination	ACRYLAC SPECIAL Primer Gloss 57S1109 ACRYLAC SPECIAL Primer Semimatt 57S2109 ACRYLAC SPECIAL Primer Matt 57S2309	D D D	
UV inline process (ink, ACRYLAC + UV lacquer are applied wet on wet in a single pass	ACRYLAC SPECIAL Primer UV-inline 57S1609	-	Not suitable for spot coating; must be overcoated with UV lacquer over the entire surface
Converting /Application			
Converting and final application require an extraordinary degree of rub resistance	ACRYLAC SPECIAL Rub Extra Gloss 57S1108 ACRYLAC SPECIAL Rub Extra Matt 57S2308	D D	In the event of severe rubbing problems, the printing and converting processes must also be investigated – e.g. the coating weight, ink drying characteristics, adhesive setting, die-cutting and packaging machines – because even highly rub-resistant coatings such as 57S1108 and 57S2308 cannot compensate all deficiencies.
Thermoforming and edging cardboard packaging	ACRYLAC SPECIAL High Slip 57S1107	D	
Strong influence of heat, e.g. through hot tools, subsequent heating of the print or the like	ACRYLAC SPECIAL Heat Resist Gloss 57S1106 ACRYLAC SPECIAL Heat Resist Matt 57S2306	D D	
Laser printing	ACRYLAC SPECIAL Heat Resist Gloss 57S1106 ACRYLAC SPECIAL Heat Resist Matt 57S2306	D D	Due to the large number of makes and models of laser printer available, it's not possible to make a general recommendation. A pre-production test is essential!! We recommend cutting out the area to be printed, i.e. leaving it blank.
Special surface slip properties			
Exceedingly low-friction surfaces	ACRYLAC SPECIAL High Slip 57S1107	D	
Dull, antislip surfaces	ACRYLAC SPECIAL Antislip 57S1103 ACRYLAC SPECIAL Antislip Extra 57S1203 ACRYLAC SPECIAL Antislip Ultra S 57S1403 ACRYLAC SPECIAL Antislip Matt 57S2103	D D S D	The surface slip properties of a print depend heavily on the substrate, the coating and the printing conditions. If defined values are required, the specialist department requires the following samples/details: - Original substrate for laboratory tests - How measurements are taken: coating vs. coating/coating vs. another surface - The measurement method used: slip angle/kinetic (dynamic) friction / static friction
General			
Use for food, confectionery and consumables packaging			We recommend you use our MGA product range. For more information, visit www.hubergroup.com